

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in this application.

Listing of Claims:

1. (Currently Amended) A method for monitoring a directory service, the method comprising:

scanning event logs for components and applications utilized by a directory service within a distributed data processing system and checking for errors;

responsive to a determination that an error is not indicated by one of the event logs, for performing a query of directory service objects is performed to determine whether there are any errors and if an error is determined based on the query of the directory service objects, proceeding as if the error were determined by an event log;

responsive to a determination that an error is not indicated after a query of the directory service objects testing a plurality of components to determine if the plurality of components is performing correctly and if it is determined that one of the tests of one of the plurality of components failed, indicating an error and proceeding as if the error were determined by an event log;

responsive to a determination that an error is not indicated after a query of the directory service objects and responsive to a determination that no test of whether the plurality of components are functioning correctly failed, continuing to monitor the directory service;

responsive to a determination that an error is indicated by one of the event logs, consulting a knowledge base to determine if an entry for the error is contained within the knowledge base, wherein the knowledge base contains entries for known errors and associated corrective actions;

responsive to a determination that an entry for the error is contained within the knowledge base, determining corrective actions to be taken to correct the error and determining whether the corrective actions are authorized under present conditions of the distributed data processing system;

responsive to a determination that the corrective actions are authorized, committing the corrective actions;

responsive to a determination that the corrective action is not authorized, paging support personnel;

logging relevant information related to the error; and

providing a report concerning the error to a monitoring console.

2. (Canceled)

3. (Original) The method as recited in claim 1, wherein determining the corrective actions comprises consulting a table containing identified errors and associated corrective actions.

4. (Original) The method as recited in claim 1, further comprising:

responsive to a determination that the error is not found in the knowledge base, paging support personnel;

logging relevant information related to the error; and

providing a report concerning the error to a monitoring console.

5. (Original) The method as recited in claim 1, further comprising:

querying directory service objects for errors;

responsive to a determination that an error is found from querying the directory service objects for errors, consulting a knowledge base to determine whether an entry for the error is contained within the knowledge base, wherein the knowledge base contains entries for known errors and associated corrective actions;

responsive to a determination that an entry for the error is contained within the knowledge base, determining corrective actions to be taken to correct the error and determining whether the corrective actions are authorized under present conditions of the distributed data processing system; and

responsive to a determination that the corrective actions are authorized, committing the corrective actions.

6. (Cancelled)

7. (Currently Amended) A computer program product in a computer readable medium for use in a data processing system for monitoring a directory service, the computer program product comprising:

first instructions for scanning event logs for components and applications utilized by a directory service within a distributed data processing system and checking for errors;

second instructions, responsive to a determination that an error is not indicated by one of the event logs, for performing a query of directory service objects is performed to determine whether there are any errors and if an error is determined based on the query of the directory service objects, proceeding as if the error were determined by an event log;

third instructions, responsive to a determination that an error is not indicated after a query of the directory service objects testing a plurality of components to determine if the plurality of components is performing correctly and if it is determined that one of the tests of one of the plurality of components failed, for indicating an error and proceeding as if the error were determined by an event log;

fourth instructions, responsive to a determination that an error is not indicated after a query of the directory service objects and responsive to a determination that no test of whether the plurality of components are functioning correctly failed, for continuing to monitor the directory service;

~~second~~ fifth instructions for consulting a knowledge base to determine if an entry for the error is contained within the knowledge base if it is determined that an error is indicated by one of the event logs, wherein the knowledge base contains entries for known errors and associated corrective actions;

~~third~~ sixth instructions for determining corrective actions to be taken to correct the error and determining whether the corrective actions are authorized under present conditions of the distributed data processing system if it is determined that an entry for the error is contained within the knowledge base;

~~fourth~~ seventh instructions for committing the corrective actions if it is determined that the corrective actions are authorized;

~~fifth~~ eighth instructions for paging support personnel if it is determined that the corrective action is not authorized;

~~sixth~~ ninth instructions for logging relevant information related to the error; and

~~seventh~~ tenth instructions for providing a report concerning the error to a monitoring console.

8. (Canceled)

9. (Original) The computer program product as recited in claim 7, wherein determining the corrective actions comprises consulting a table containing identified errors and associated corrective actions.

10. (Currently Amended) The computer program product as recited in claim 7, further comprising:

~~eighth~~ eleventh instructions for paging support personnel if it is determined that the error is not found in the knowledge base;

~~ninth~~ twelfth instructions for logging relevant information related to the error; and

~~tenth~~ thirteenth instructions for providing a report concerning the error to a monitoring console.

11. (Currently Amended) The computer program product as recited in claim 7, further comprising:

~~eighth~~ eleventh instructions for querying directory service objects for errors;

~~ninth~~ twelfth instructions for consulting a knowledge base to determine whether an entry for the error is contained within the knowledge base if it is determined that an error is found from querying the directory service objects for errors, wherein the knowledge base contains entries for known errors and associated corrective actions;

~~tenth~~ thirteenth instructions for determining corrective actions to be taken to correct the error and determining whether the corrective actions are authorized under present conditions of the distributed data processing system if it is determined that an entry for the error is contained within the knowledge base; and

~~eleventh~~ fourteenth instructions for committing the corrective actions if it is determined that the corrective actions are authorized.

12. (Cancelled)

13. (Currently Amended) A system for monitoring a directory service in a distributed data processing system, the system comprising:

first means for scanning event logs for components and applications utilized by a directory service within a distributed data processing system and checking for errors;

second means, responsive to a determination that an error is not indicated by one of the event logs, for performing a query of directory service objects is performed to determine whether there are any errors and if an error is determined

based on the query of the directory service objects, proceeding as if the error were determined by an event log;

third means, responsive to a determination that an error is not indicated after a query of the directory service objects testing a plurality of components to determine if the plurality of components is performing correctly and if it is determined that one of the tests of one of the plurality of components failed, for indicating an error and proceeding as if the error were determined by an event log;

fourth means, responsive to a determination that an error is not indicated after a query of the directory service objects and responsive to a determination that no test of whether the plurality of components are functioning correctly failed, for continuing to monitor the directory service;

~~second~~ fifth means for consulting a knowledge base to determine if an entry for the error is contained within the knowledge base if it is determined that an error is indicated by one of the event logs, wherein the knowledge base contains entries for known errors and associated corrective actions;

~~third~~ sixth means for determining corrective actions to be taken to correct the error and determining whether the corrective actions are authorized under present conditions of the distributed data processing system if it is determined that an entry for the error is contained within the knowledge base;

~~fourth~~ seventh means for committing the corrective actions if it is determined that the corrective actions are authorized;

~~fifth~~ eighth means for paging support personnel if it is determined that the corrective action is not authorized;

~~sixth~~ ninth means for logging relevant information related to the error; and

~~seventh~~ tenth means for providing a report concerning the error to a monitoring console.

14. (Canceled)

15. (Original) The system as recited in claim 13, wherein determining the corrective actions comprises consulting a table containing identified errors and associated corrective actions.

16. (Currently Amended) The system as recited in claim 13, further comprising:

~~eighth~~ eleventh means for paging support personnel if it is determined that the error is not found in the knowledge base;

~~ninth~~ twelfth means for logging relevant information related to the error; and

~~tenth~~ thirteenth means for providing a report concerning the error to a monitoring console.

17. (Currently Amended) The system as recited in claim 13, further comprising:

~~eighth~~ eleventh means for querying directory service objects for errors;

~~ninth~~ twelfth means for consulting a knowledge base to determine whether an entry for the error is contained within the knowledge base if it is determined that an error is found from querying the directory service objects for errors, wherein the knowledge base contains entries for known errors and associated corrective actions;

~~tenth~~ thirteenth means for determining corrective actions to be taken to correct the error and determining whether the corrective actions are authorized under present conditions of the distributed data processing system if it is determined that an entry for the error is contained within the knowledge base; and

~~eleventh~~ fourteenth means for committing the corrective actions if it is determined that the corrective actions are authorized.

18. (Cancelled)